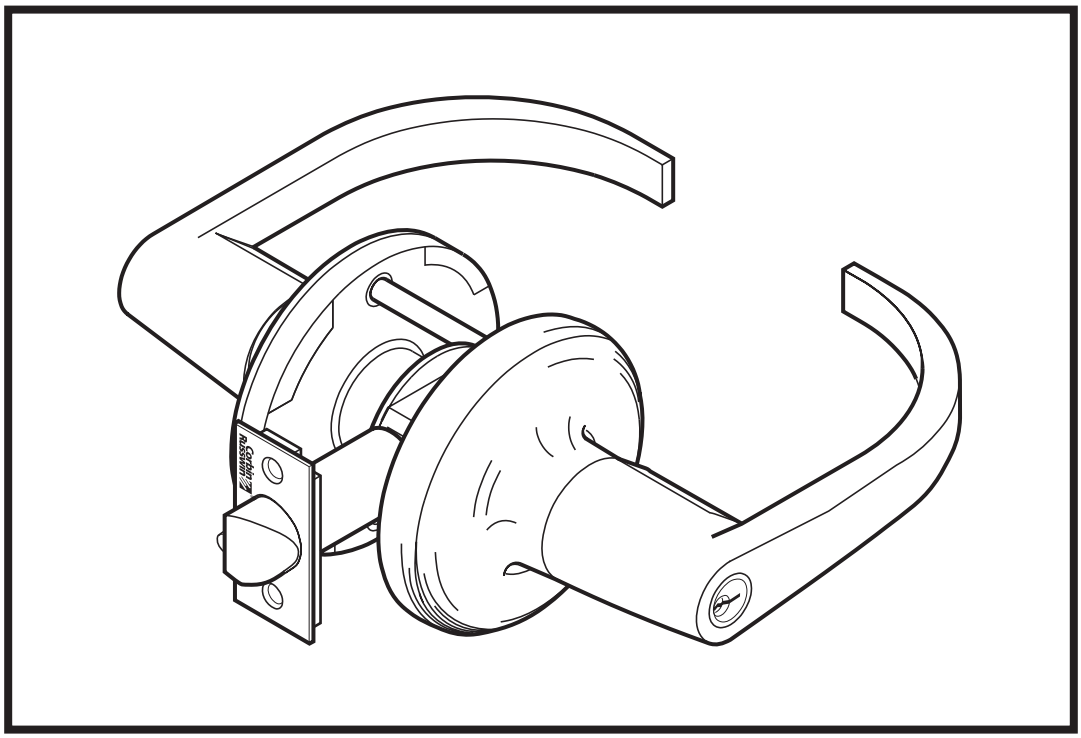
CL3900 Series

Grade 2 Key-in-Lever Cylindrical Lockset

Service/Parts Manual



Corbin Russwin Architectural Hardware
P.O. Box 25288
Charlotte, NC 28229-8010
Ph.: 800-543-3658
Fax: 800-447-6714

To order parts, use the appropriate Part Number and specify Finish (fin) as directed. For example, to order ten Lock Chassis for the CL3951 Function in 626 finish, use the following configuration:

Quantity	Part Number	Finish	Hand
10	678F848	626	

- In order to simplify the ordering procedure, parts are only avail-able as listed.
- Refer to the installation instructions for complete installation.
- For assistance, contact you authorized Corbin Russwin distrib-utor or Corbin Russwin directly at the address on the back cover.

Lockset Parts (by function)

FUNCTION	ANSI	DESCRIPTION	PAGE
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CL3920	F76	Privacy, Bedroom or Bathroom	5
CL3940	F77	Patio	5
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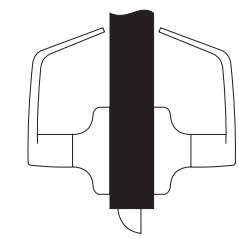
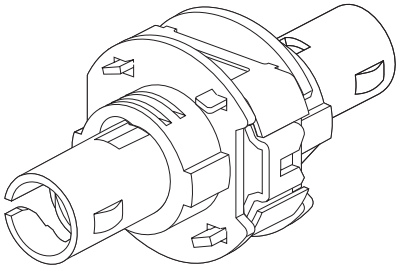
CL3955	F84	Classroom	7
CL3957	F86	Storeroom of Closet	8
CL3962	F80	Communicating	9
CL3980	--	Passage Lever x Blank Plate	10
CL3981	--	Keyed Lever x Blank Plate	11

Accessories

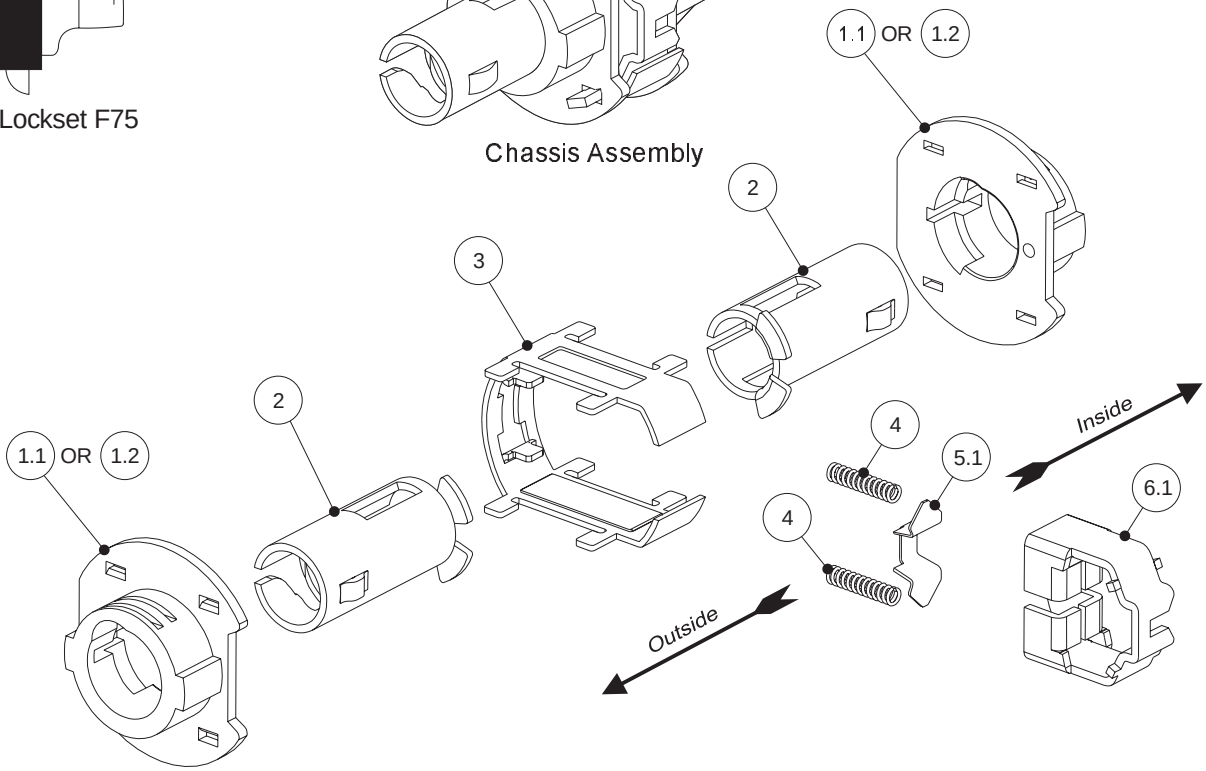
Lever Designs 12
Cylinders 12
Strikes 13
Latches/Rose Assembly 14
Installation Instructions 15



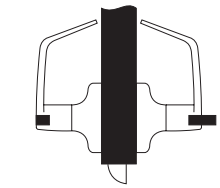
Passage Lockset F75



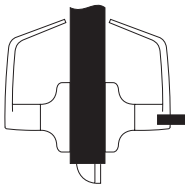
Chassis Assembly



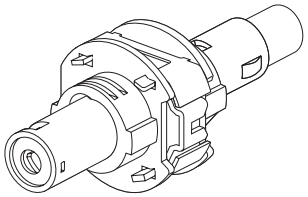
ITEM	PART NO.	SPECIFY	DESCRIPTION	QUANTITY	
				678F818 1-3/8" TO 1-3/4" DOOR	678F918 2" TO 2-1/4" DOOR
1.1	679F495		Flange (For 1-3/8" to 1-3/4" Door)	2	-
1.2	679F565		Flange (For 2" to 2-1/4" Door)	-	2
2	679F378		Spindle, Inside	2	
3	679F488		Frame	1	
4	679F507		Spring, Retractor	2	
5.1	679F458		Retainer, Spring	1	
6.1	679F468		Retractor	1	



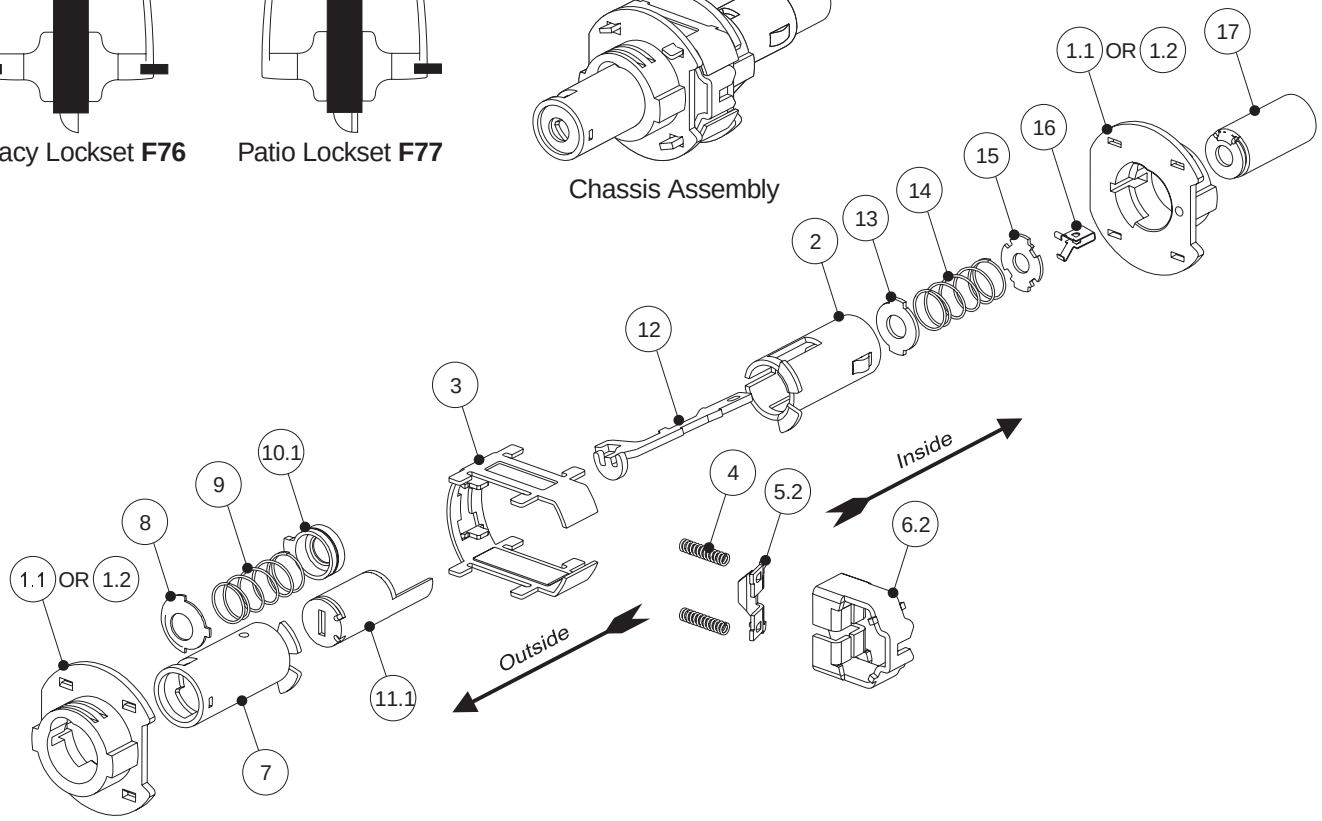
Privacy Lockset **F76**



Patio Lockset **F77**

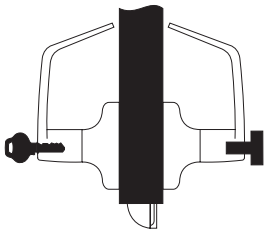


Chassis Assembly

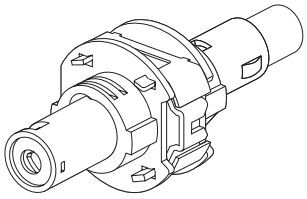


ITEM	PART NO.	SPECIFY	DESCRIPTION	QUANTITY	
				678F828 1-3/8" TO 1-3/4" DOOR	678F928 2" TO 2-1/4" DOOR
1.1	679F495		Flange (For 1-3/8" to 1-3/4" Door)	2	-
1.2	679F565		Flange (For 2" to 2-1/4" Door)	-	2
2	679F378		Spindle, Inside	1	
3	679F488		Frame	1	
4	679F507		Spring, Retractor	2	
5.2	679F518		Retainer, Spring	1	
6.2	679F478		Retractor	1	
7	679F398		Spindle, Outside	1	
8	679F908		Spring Seat	1	
9	679F888		Spring	1	
10.1	679F898		Pawl	1	
11.1	679F918		Release Tube	1	
12	679F828		Stem	1	
13	679F848		Spring Bank	1	
14	679F838		Stem Spring	1	
15	679F858		Connecting Washer	1	
16	679F868		Speed Clip	1	
17	679F878		Adjusting Tube	1	

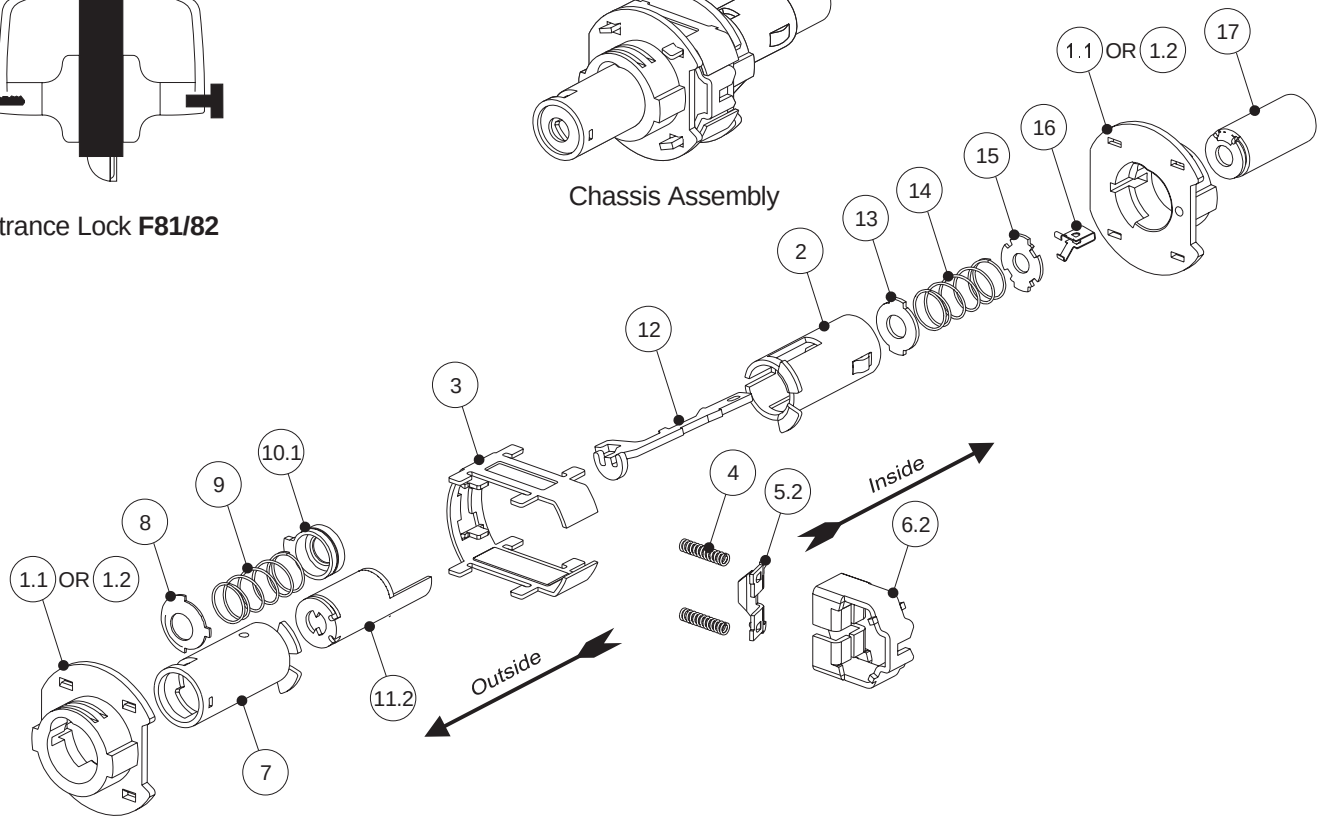
Corbin Russwin®



Entrance Lock **F81/82**

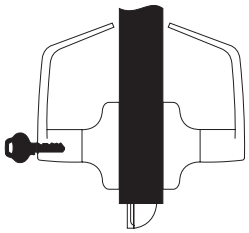


Chassis Assembly

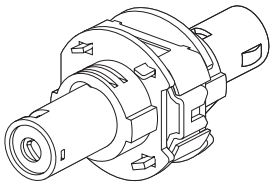


ITEM	PART NO.	SPECIFY	DESCRIPTION	QUANTITY	
				678F848 1-3/8" TO 1-3/4" DOOR	678F948 2" TO 2-1/4" DOOR
1.1	679F495		Flange (For 1-3/8" to 1-3/4" Door)	2	-
1.2	679F565		Flange (For 2" to 2-1/4" Door)	-	2
2	679F378		Spindle, Inside	1	
3	679F488		Frame	1	
4	679F507		Spring, Retractor	2	
5.2	679F518		Retainer, Spring	1	
6.2	679F468		Retractor	1	
7	679F398		Spindle, Outside	1	
8	679F908		Spring Seat	1	
9	679F888		Spring	1	
10.1	679F898		Pawl	1	
11.2	679F938		Release Tube	1	
12	679F828		Stem	1	
13	679F848		Spring Bank	1	
14	679F838		Stem Spring	1	
15	679F858		Connecting Washer	1	
16	679F868		Speed Clip	1	
17	679F878		Adjusting Tube	1	

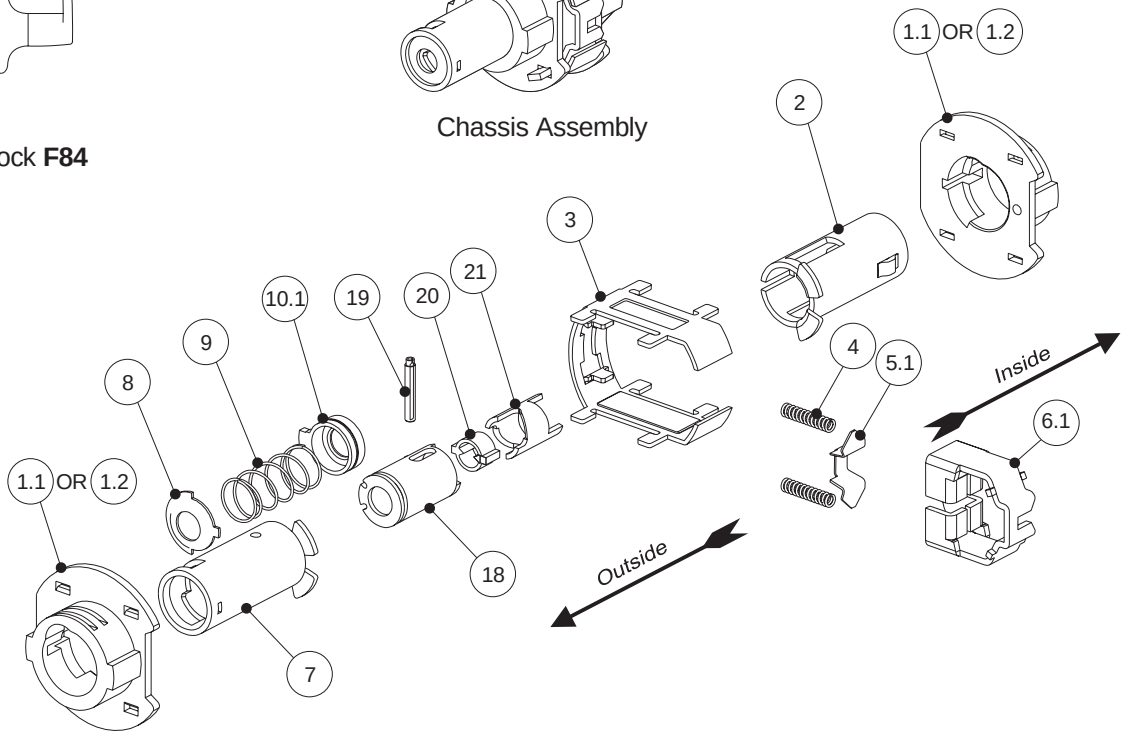
Corbin Russwin®



Classroom Lock **F84**

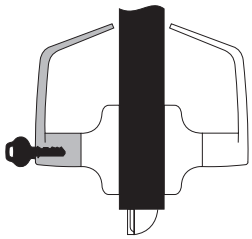


Chassis Assembly

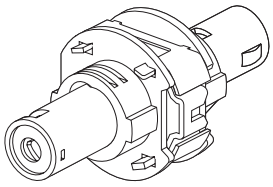


ITEM	PART NO.	SPECIFY	DESCRIPTION	QUANTITY	
				678F858 1-3/8" TO 1-3/4" DOOR	678F958 2" TO 2-1/4" DOOR
1.1	679F495		Flange (For 1-3/8" to 1-3/4" Door)	2	-
1.2	679F565		Flange (For 2" to 2-1/4" Door)	-	2
2	679F378		Spindle, Inside	1	
3	679F488		Frame	1	
4	679F507		Spring, Retractor	2	
5.1	679F458		Retainer, Spring	1	
6.1	679F468		Retractor	1	
7	679F398		Spindle, Outside	1	
8	679F908		Spring Seat	1	
9	679F888		Spring	1	
10.1	679F898		Pawl	1	
18	679F968		Release Tube	1	
19	679F958		Stop Pin	1	
20	679F978		Cam Tube Driver	1	
21	679F948		Cam Tube	1	

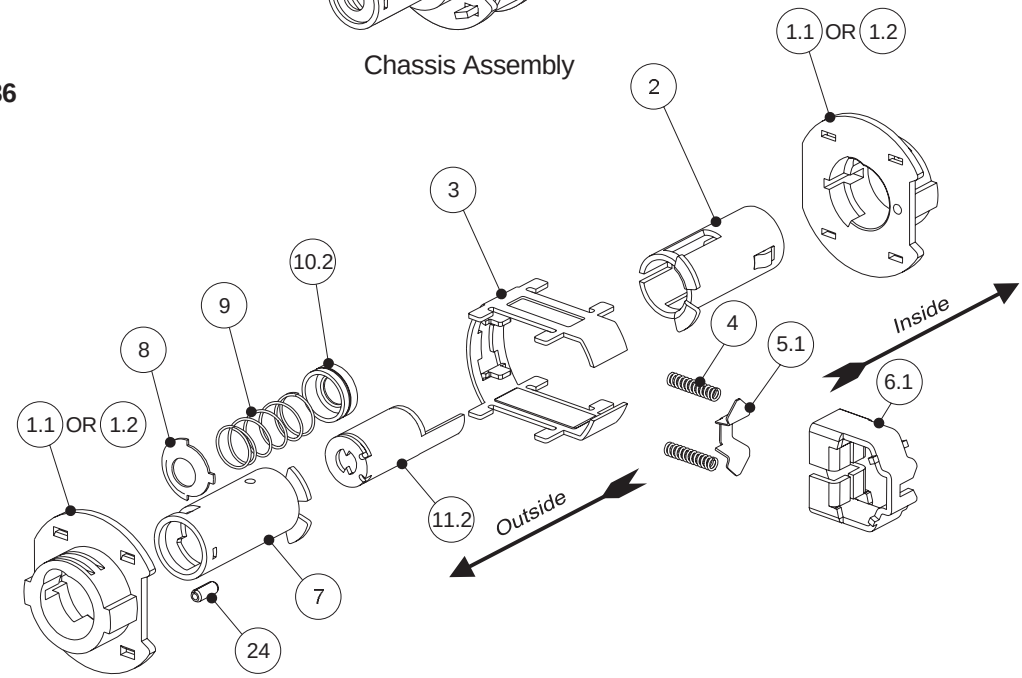
Corbin Russwin®



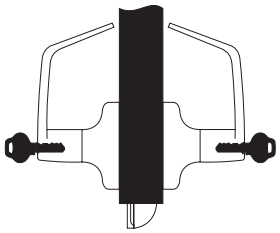
Storeroom Lock **F86**



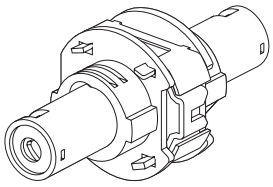
Chassis Assembly



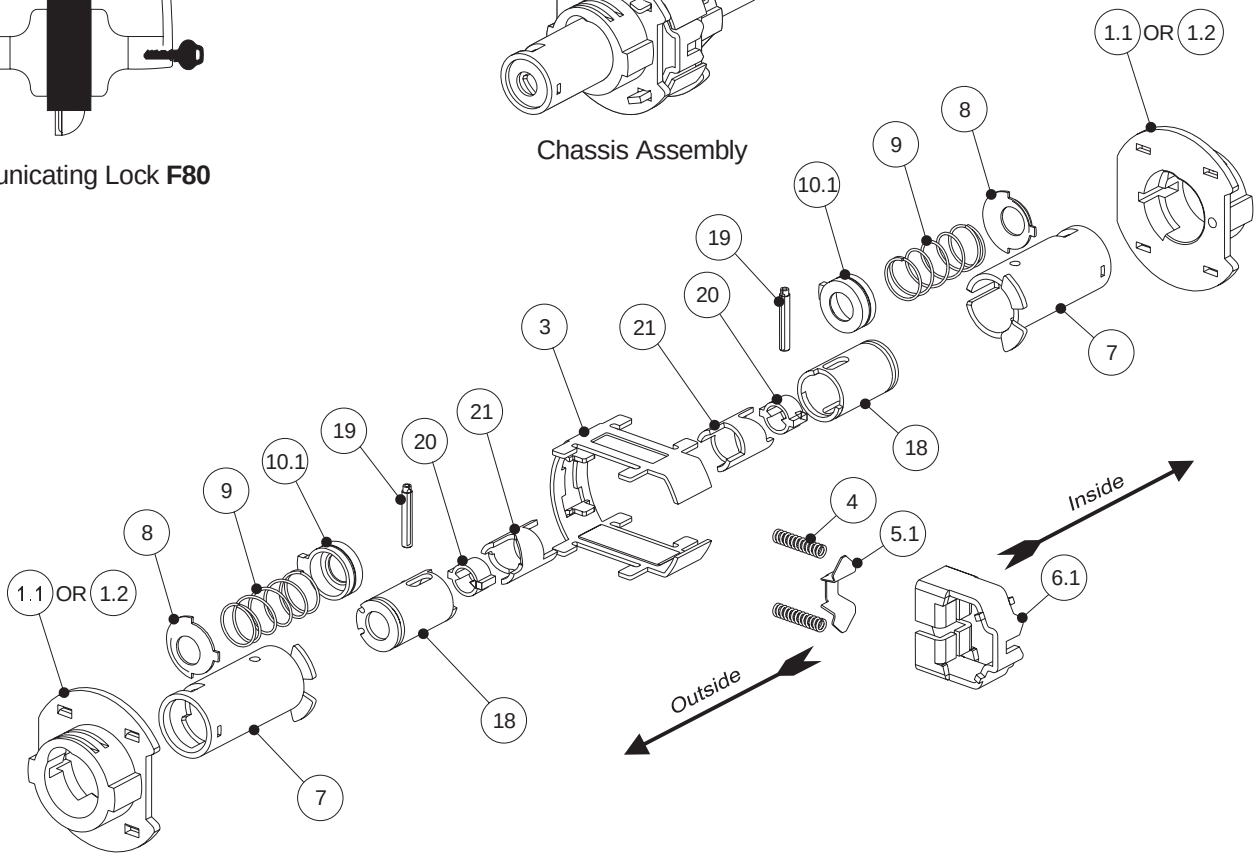
ITEM	PART NO.	SPECIFY	DESCRIPTION	QUANTITY	
				678F868 1-3/8" TO 1-3/4" DOOR	678F968 2" TO 2-1/4" DOOR
1.1	679F495		Flange (For 1-3/8" to 1-3/4" Door)	2	-
1.2	679F565		Flange (For 2" to 2-1/4" Door)	-	2
2	679F378		Spindle, Inside	1	
3	679F488		Frame	1	
4	679F507		Spring, Retractor	2	
5.1	679F458		Retainer, Spring	1	
6.1	679F468		Retractor	1	
7	679F398		Spindle, Outside	1	
8	679F908		Spring Seat	1	
9	679F888		Spring	1	
10.2	679F928		Pawl	1	
11.2	679F938		Release Tube	1	
24	679F558		Roll Pin	1	



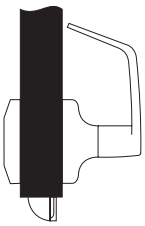
Communicating Lock **F80**



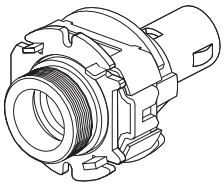
Chassis Assembly



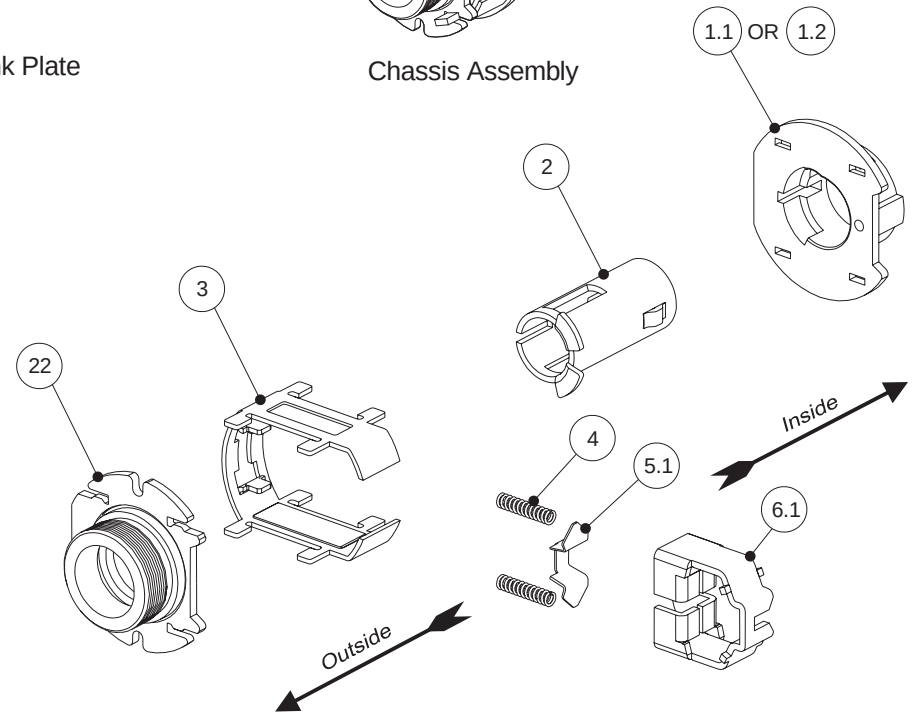
ITEM	PART NO.	SPECIFY	DESCRIPTION	QUANTITY	
				678F878 1-3/8" TO 1-3/4" DOOR	678F978 2" TO 2-1/4" DOOR
1.1	679F495		Flange (For 1-3/8" to 1-3/4" Door)	2	-
1.2	679F565		Flange (For 2" to 2-1/4" Door)	-	2
3	679F488		Frame	1	
4	679F507		Spring, Retractor	2	
5.1	679F458		Retainer, Spring	1	
6.1	679F468		Retractor	1	
7	679F398		Spindle, Outside	2	
8	679F908		Spring Seat	2	
9	679F888		Spring	2	
10.1	679F898		Pawl	2	
18	679F968		Release Tube	2	
19	679F958		Stop Pin	2	
20	679F978		Cam Tube Driver	2	
21	679F948		Cam Tube	2	



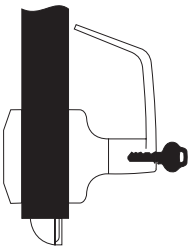
Passage Lever x Blank Plate



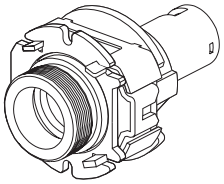
Chassis Assembly



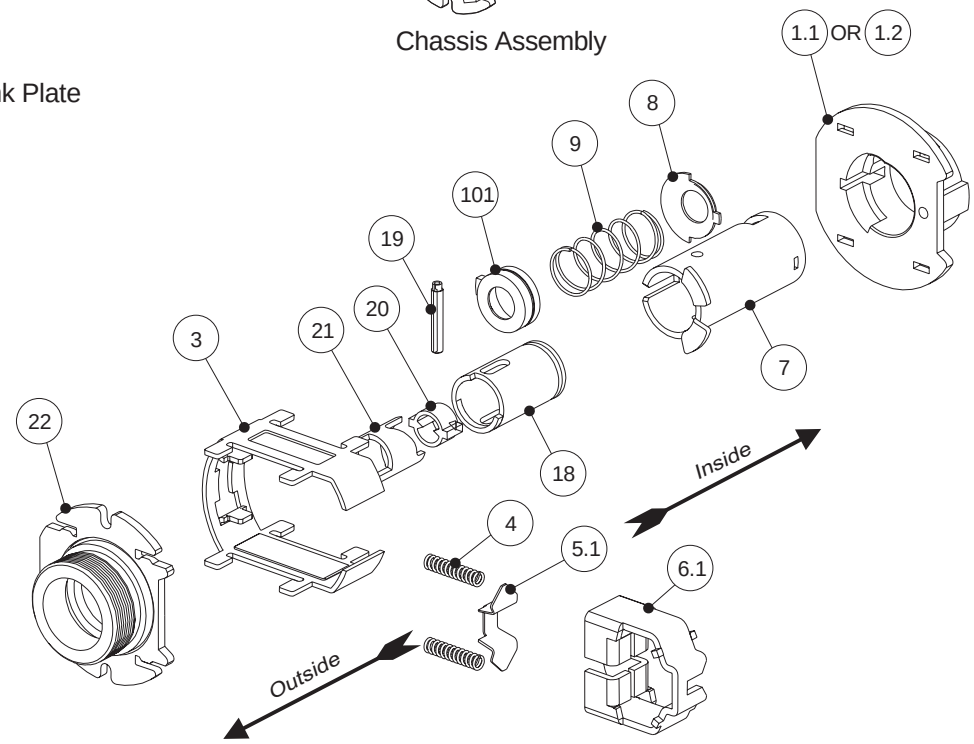
ITEM	PART NO.	SPECIFY	DESCRIPTION	QUANTITY	
				678F888 1-3/8" TO 1-3/4" DOOR	678F988 2" TO 2-1/4" DOOR
1.1	679F495		Flange (For 1-3/8" to 1-3/4" Door)	1	-
1.2	679F565		Flange (For 2" to 2-1/4" Door)	-	1
2	679F378		Spindle, Inside	1	
3	679F488		Frame	1	
4	679F507		Spring, Retractor	2	
5.1	679F458		Retainer, Spring	1	
6.1	679F468		Retractor	1	
22	679F538		Flange Assembly, Outside	1	



Keyed Lever x Blank Plate



Chassis Assembly

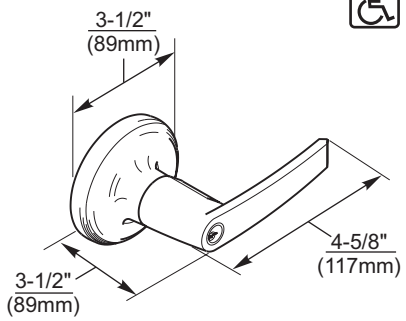


ITEM	PART NO.	SPECIFY	DESCRIPTION	QUANTITY	
				678F898 1-3/8" TO 1-3/4" DOOR	678F998 2" TO 2-1/4" DOOR
1.1	679F495		Flange (For 1-3/8" to 1-3/4" Door)	1	-
1.2	679F565		Flange (For 2" to 2-1/4" Door)	-	1
3	679F488		Frame	1	
4	679F507		Spring, Retractor	2	
5.1	679F458		Retainer, Spring	1	
6.1	679F468		Retractor	1	
7	679F398		Spindle, Outside	1	
8	679F908		Spring Seat	1	
9	679F888		Spring	1	
10.1	679F898		Pawl	1	
18	679F968		Release Tube	1	
19	679F958		Stop Pin	1	
20	679F978		Cam Tube Driver	1	
21	679F948		Cam Tube	1	
22	679F538		Flange Assembly, Outside	1	

Lever Designs

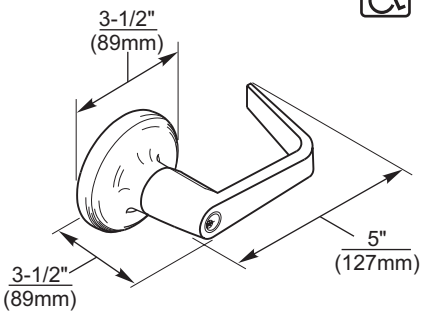
Armstrong

AZD **Lever:** Die cast zinc
Rose: Wrought brass or bronze



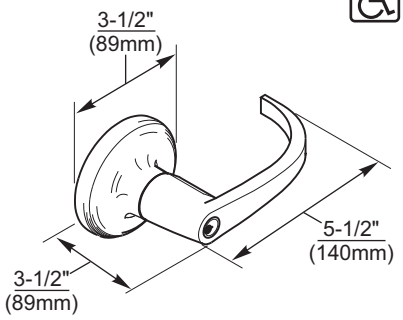
Newport

NZD **Lever:** Die cast zinc
Rose: Wrought brass or bronze



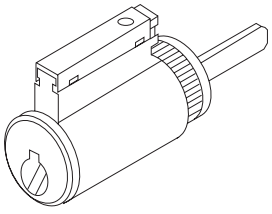
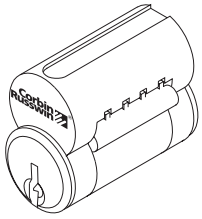
Princeton

PZD **Lever:** Die cast zinc
Rose: Wrought brass or bronze



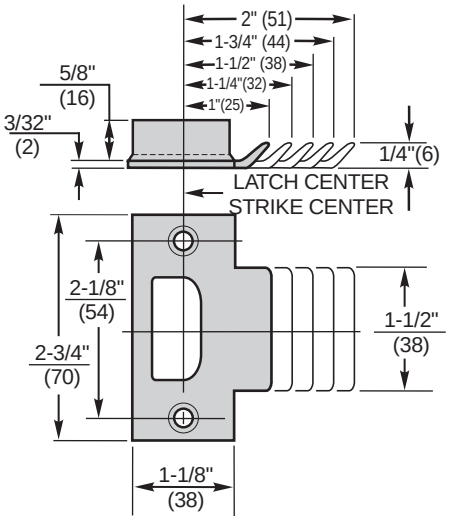
	AZD	NZD	PZD
Cylinder	677F525 X FIN	677F515 X FIN	680F945 X FIN
Emergency Key Hole	679F235 X FIN	679F225 X FIN	680F925 X FIN
Plain	680F445 X FIN	680F455 X FIN	680F955 X FIN
Plain (Patio Function)	677F645 X FIN	677F635 X FIN	680F935 X FIN
Button	680F465 X FIN	680F475 X FIN	680F965 X FIN
Cylinder (Interchangeable Core)	677F585 X FIN	677F575 X FIN	680F985 X FIN
Cylinder (Best Recore)	677F625 X FIN	677F615 X FIN	680F995 X FIN

Cylinders

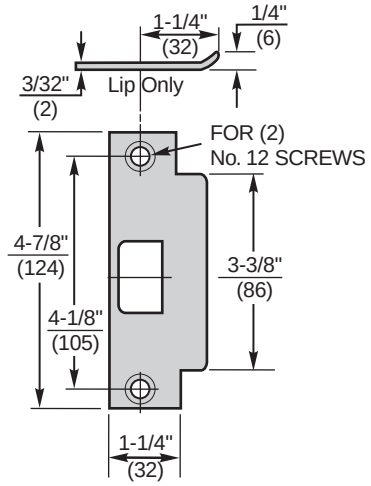
	Standard Cylinder	Interchangeable Core
		
	.509" plug dia. conventional .552" plug dia. high security Brass, 6-pin 2 nickel silver keys Finishes: 606, 626	.509" plug dia. conventional .552" plug dia. high security Brass, 6-pin 2 nickel silver keys Finishes: 606, 626, 611, 612, 613, 625, 626
Conventional 6-Pin	(Std.) 2000-039/*2000-039L	8000
High Security 6-Pin	2010-039/*2010-039L	8010

*2" to 2-1/4" doors

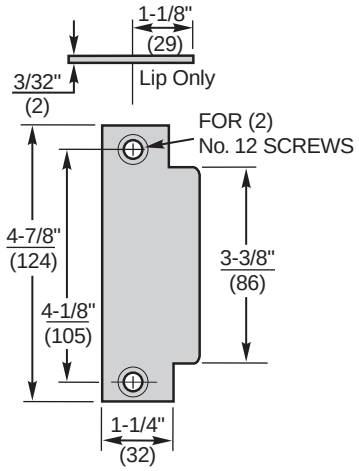
Compatibility with Competitve Cylinders	
Competitve Cylinders	Parts Required for Installation
Schlage conventional 21-002, 23-001 or 23-013	680F588 (1-3/4" Door) 681F208 (2-1/4" Door) Adapter Kit with M06 option.
Schlage Primus 20-548, 20-550, 20-78 or 20-750	680F588 (1-3/4" Door) 681F208 (2-1/4" Door) Adapter Kit with M06 option.
Best style core, 6 or 7 pin	680F598 Adapter Kit with M06 option (6 & 7 pin).



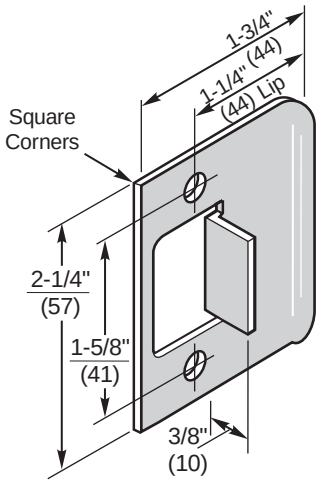
T-Strike **679L24MLENFIN**
This strike will accommodate frames for 1-3/8" (35mm) to 1-3/4" (44mm) thick doors. Strikes with other lip dimensions shown are available to special order Supplied with Wrought Strike Box Part.
Attaching Screws:
Order Screw Pack 680F388 by finish.



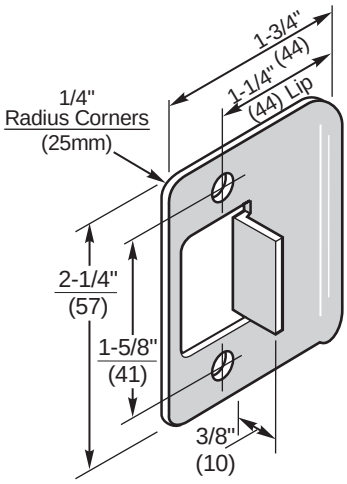
Standard ANSI
Curved Lip Strike **679L25MLENFIN**
for door and frames with ANSI A115.2 preparations.
Attaching Screws:
Order Screw Pack 680F398 by finish.



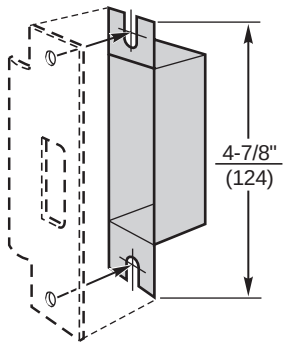
Strike ASA Blank **680L52MLENFIN**
available to special order Installed in frame with standard ANSI A115.2 preparation to replace the strike when the lockset has been removed from the door
Attaching Screws:
Order Screw Pack 680F398 by finish.



Full Lip Strike **680L50M020FIN**
with full lip anti-rattle tab.
Attaching Screws:
Order Screw Pack 680F388 by finish.



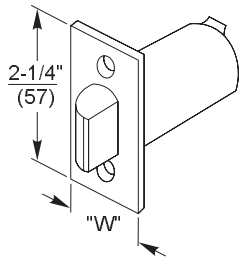
Full Lip Strike **680L51M020FIN**
1/4 Radius Corners
Similar in dimensions and function to the 70S Strike but with radius corners for easy mortising by power tools. Anti-rattle tab.
Attaching Screws:
Order Screw Pack 680F388 by finish.



ANSI Wrought Box Strike **120F768**
available to special order

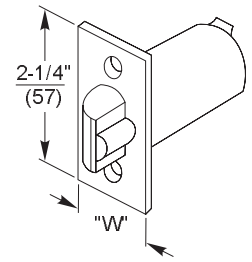
Plain

List No.	Front	"W" Front Width	Backset	Latch Diameter
679F05	Bevelled	1-1/8" (29mm)	2-3/4" (70mm)	1" (25mm) Sleeve
679F12	Flat	1" (25mm)	2-3/8" (60mm)	7/8" (22mm)
680F03	Flat	1" (25mm)	2-3/4" (70mm)	7/8" (22mm)
680F40	Flat	1" (25mm)	3-3/4" (95mm)	7/8" (22mm)
680F41	Bevelled	1-1/8" (29mm)	3-3/4" (95mm)	1" (25mm) Sleeve



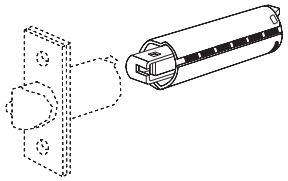
Deadlocking

List No.	Front	"W" Front Width	Backset	Latch Diameter
679F06	Bevelled	1-1/8" (29mm)	2-3/4" (70mm)	1" (25mm) Sleeve
679F13	Flat	1" (25mm)	2-3/8" (60mm)	7/8" (22mm)
680F04	Flat	1" (25mm)	2-3/4" (70mm)	7/8" (22mm)
680F42	Flat	1" (25mm)	3-3/4" (95mm)	7/8" (22mm)
680F43	Bevelled	1-1/8" (29mm)	3-3/4" (95mm)	1" (25mm) Sleeve

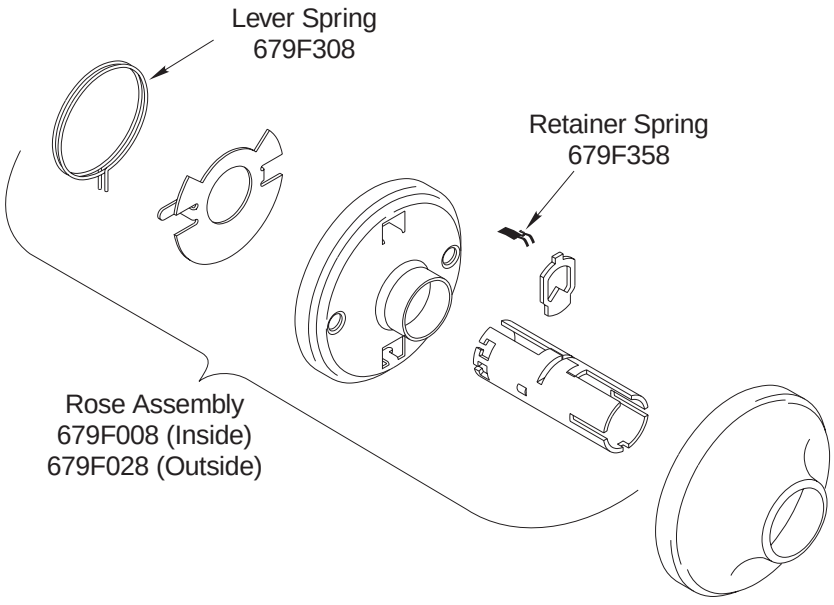


Backset Extention Links

Backset Desired	Latchbolt	Order Extension List Number	Backset	Latch Diameter
5"	679F12,679F13	680F488	2-3/8" (60mm)	7/8" (22mm)
5"	679F05,679F06 680F03 x 680F04	680F498	2-3/4" (70mm)	1" (25mm)



When ordering latchbolt, specify Part No. x Finish (e.g., 679F05 x 626). Available 606 and 626.



CL3900 Series
Grade 2 Key-In-Lever
Cylindrical Lockset

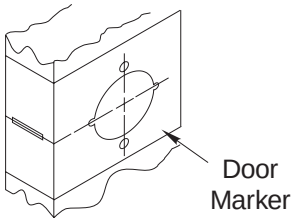
IMPORTANT: The accuracy of the door preparation is critical for the proper functioning and security of this lever handle lock. Misalignment can cause premature wear and tear and a lessening

Attention Installer

Installation of cylindrical locks and latches must be through bolted in all doors. If installation instructions are not followed, damage to the lock can result and void the factory warranty.

1. Mark door.

Mark horizontal line across edge of door. 38" (965mm) is the usual height above the floor. Fold template over edge of door, centering on horizontal line. Mark centers of holes at proper backset. For beveled and square edge doors, mark both sides of the door.



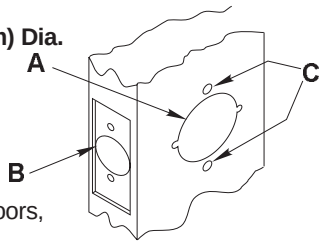
Note:
Be sure to verify backset before marking & drilling door.

2. Drill door.

A. Drill 2-1/8" (54mm) hole thru door. Cut notches as shown on template. See Note.

B. Drill 1" (25mm) or 7/8" (22mm) hole in edge of door. Cut out for latch front 5/32" (4mm) deep. 1-1/8" (29mm) wide or 1" (25mm) wide x 2-1/4" (57mm) high. Check latch unit for proper width front and hole size required.

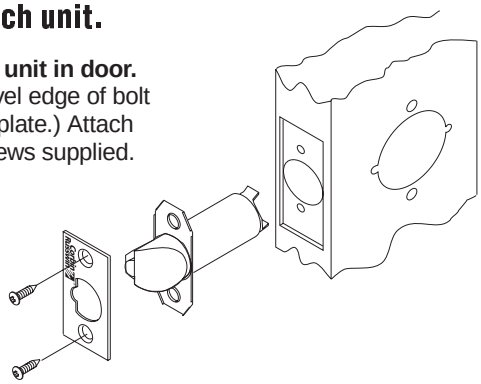
C. Drill two (2) 5/16" (8mm) Dia. holes through door. See Note.



Note:
To avoid splintering wood doors, drill holes from both sides.

3. Install latch unit.

Insert latch unit in door.
(Be sure bevel edge of bolt faces strike plate.) Attach with two screws supplied.

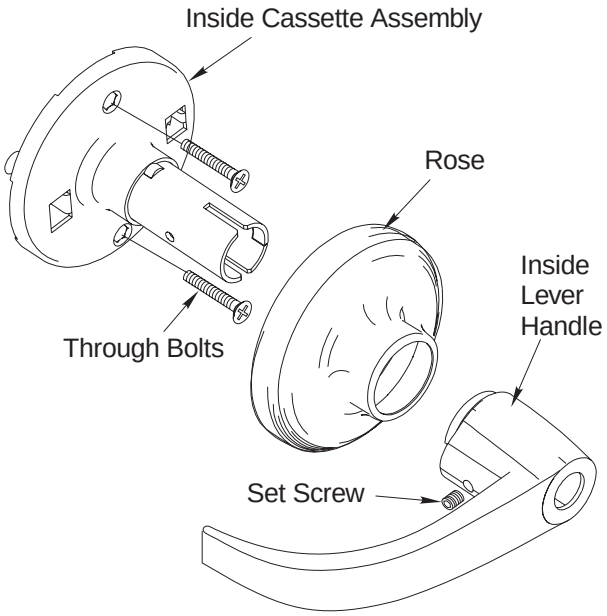


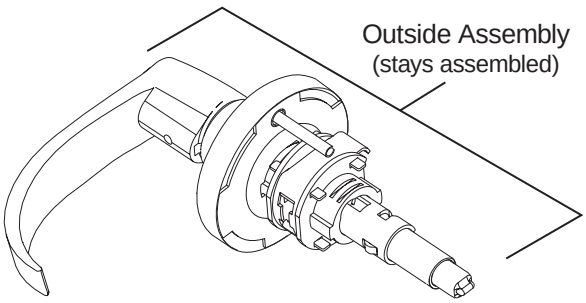
4. Disassemble lockset.

A. Remove inside lever handle.
(For double cylinder functions see section entitled "To Remove Cylinder").

B. Remove Rose.

C. Remove inside cassette assembly from lock.





5. Adjust lock for door thickness if necessary

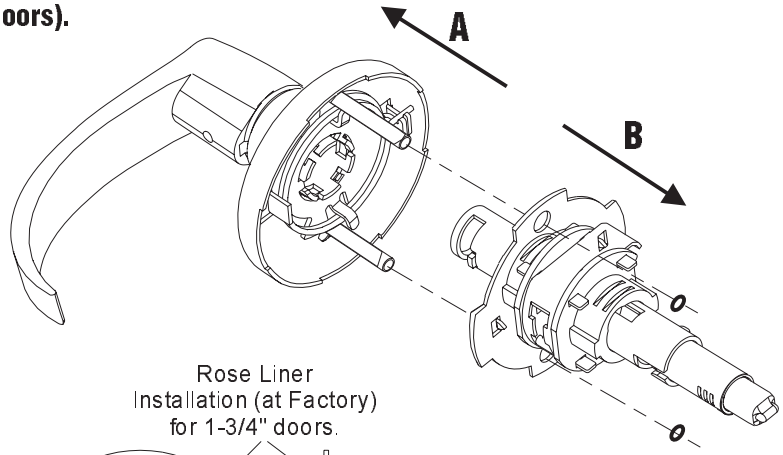
(Lock is packed preadjusted for 1-3/4"(44mm) doors).

A. Remove lever and cassette assembly (as one unit) from chassis. Slide "O" rings off of posts.

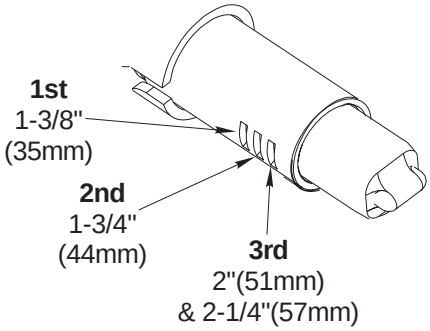
B. Disengage rose plate from chassis assembly and re-install per "Rose Liner-Illustration" below.

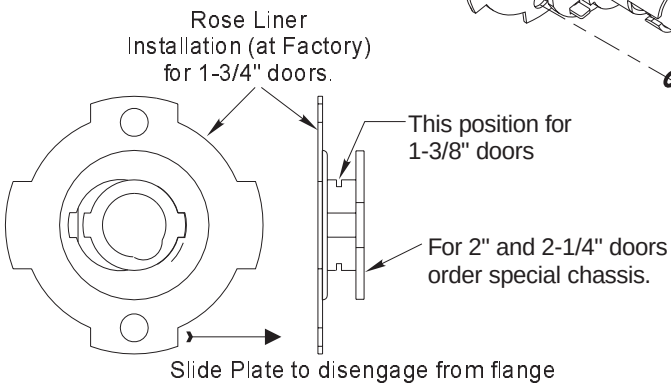
C. Assemble lever and rose assembly to the chassis assembly. Slide "O" rings onto posts and into grooves.

D. Adjust button assembly (CL3920, CL3940 and CL3951 locks only). depress retainer and adjust as shown below.



Retainer Position

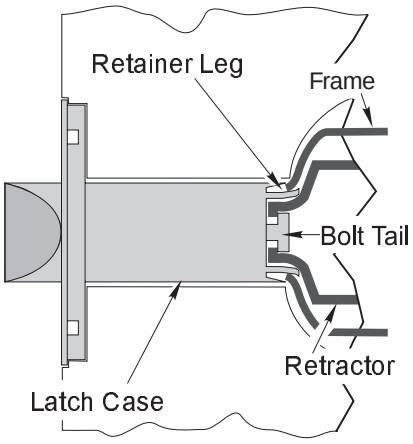




Outside Rose Liner Adjustment

6. Install lock

Insert chassis assembly into door from outside making sure that lockbody frame hooks retainer legs and retractor engages bolt tail. **DO NOT FORCE.** (If chassis assembly does not engage latch easily, check door preparation for errors.)



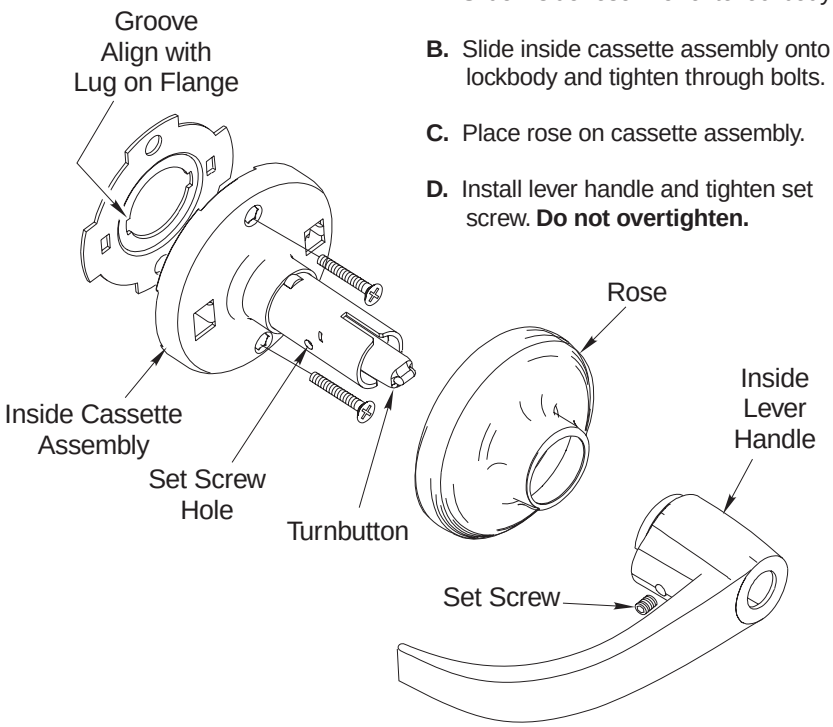
7. Install inside components

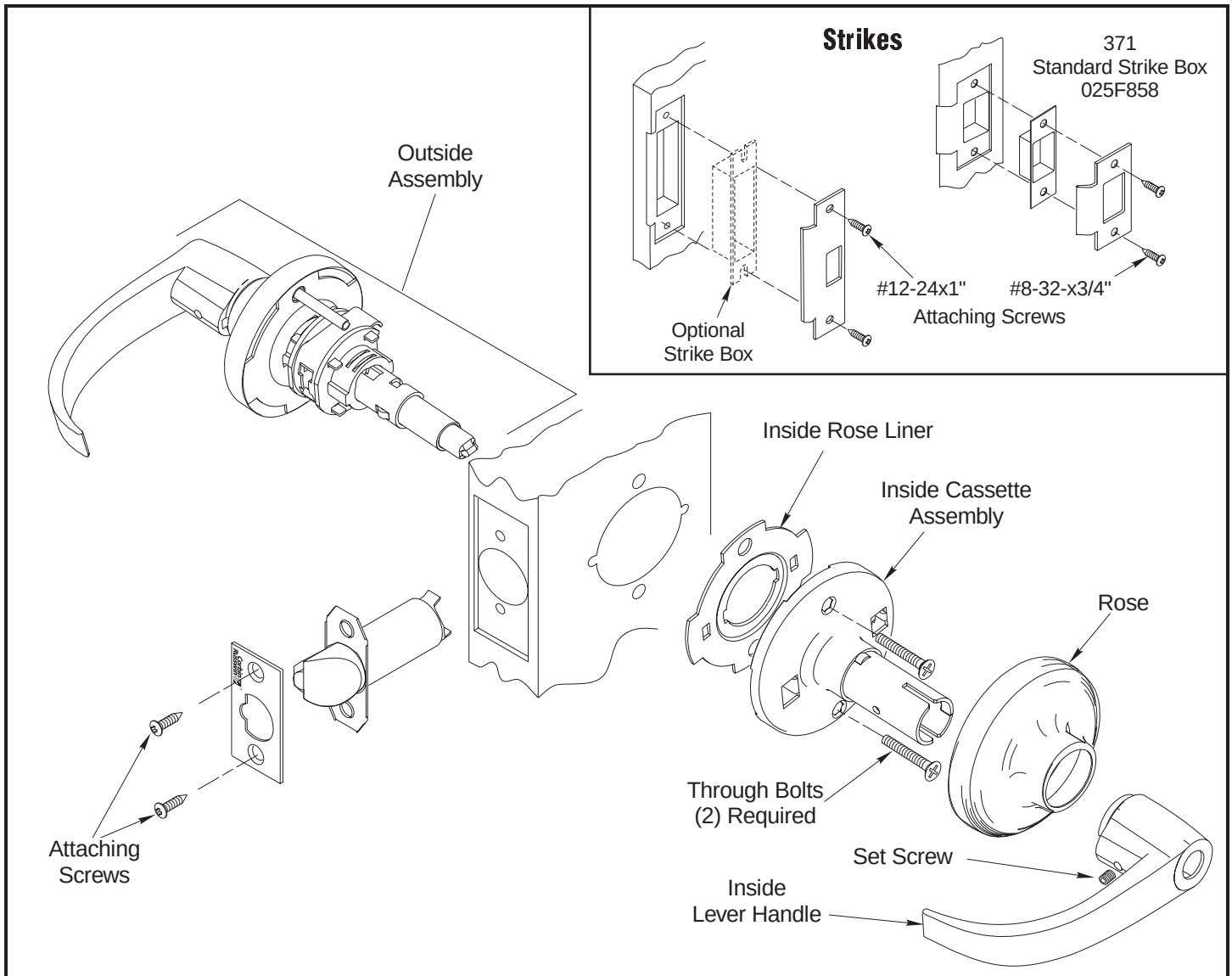
A. Slide inside rose liner onto lockbody.

B. Slide inside cassette assembly onto lockbody and tighten through bolts.

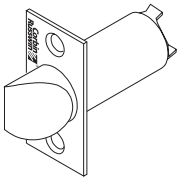
C. Place rose on cassette assembly.

D. Install lever handle and tighten set screw. **Do not overtighten.**



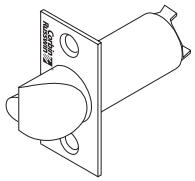


Plain Latchbolts



List No.	Front	"W" Front Width	Backset	Latch Diameter
679F05	Bevelled	1-1/8" (29mm)	2-3/4" (70mm)	1" (25mm)
679F12	Flat	1" (25mm)	2-3/8" (60mm)	7/8" (22mm)*
680F03	Flat	1" (25mm)	2-3/4" (70mm)	7/8" (22mm)*
680F40	Flat	1" (25mm)	3-3/4" (95mm)	7/8" (22mm)*
680F41	Bevelled	1-1/8" (29mm)	3-3/4" (95mm)	1" (25mm)

Deadlocking Latchbolts



List No.	Front	"W" Front Width	Backset	Latch Diameter
679F06	Bevelled	1-1/8" (29mm)	2-3/4" (70mm)	1" (25mm)
679F13	Flat	1" (25mm)	2-3/8" (60mm)	7/8" (22mm)*
680F04	Flat	1" (25mm)	2-3/4" (70mm)	7/8" (22mm)*
680F42	Flat	1" (25mm)	3-3/4" (95mm)	7/8" (22mm)*
680F43	Bevelled	1-1/8" (29mm)	3-3/4" (95mm)	1" (25mm)

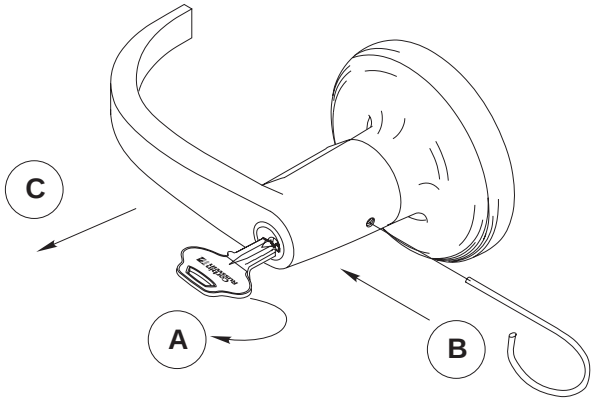
***** Install sleeve if required

To Remove Cylinder Handle

A. Insert Key and Rotate 45°.

B. Depress Retainer with tool provided.

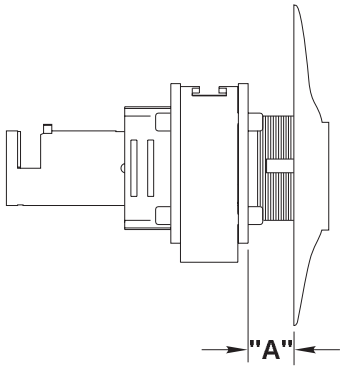
C. Slide Lever off lock. (Also applies to inside Lever of CL3962 Function).



CL3980 & CL3981 Functions Only

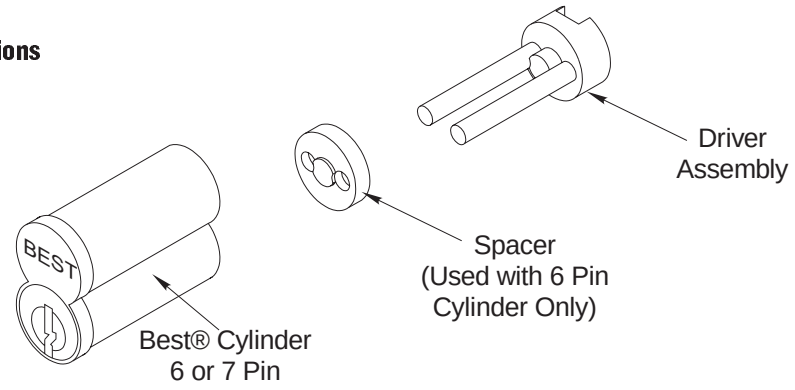
Adjust for Door Thickness

Turn Blank Rose until "A" dimension is achieved for Door thickness (see table). studs should be aligned with through-bolt holes in door.



	Door Thickness	"A"
Std. Lock	1-3/8"	1/4"
	1-3/4"	7/16"
Optional	2"	9/16"
	2-1/4"	11/16"

Best® Core Installation Instructions Kit# 680F598



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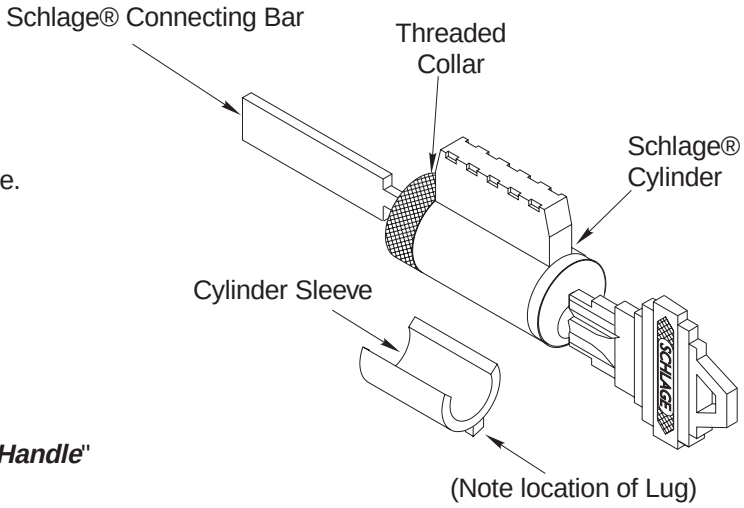
Corbin Russwin Conversion Kit For Schlage® Cylinders When used in CL3900 Locks Kit # 680F588 (1-3/4" Door Kit #681 F208 (2-1/4" door)

1. Remove threaded collar and Schlage® tailpiece.

2. Install connecting Bar with threaded collar. (Adjust collar for proper end play of plug.)

3. Slide cylinder sleeve onto cylinder.

Follow instructions above "***To Remove Cylinder Handle***" for installing cylinder into lever handle.



Schlage® is a registered trademark of Schlage Lock Corporation

Notes

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